

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO

Report Number: P643758

Luminaire Tested: ML5615LSWFL559FS1E - 592H - 1500LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 592H - 1500LM - 3500K
Description: ML56 RR, 55D TIR OPTIC, 5" HAZE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

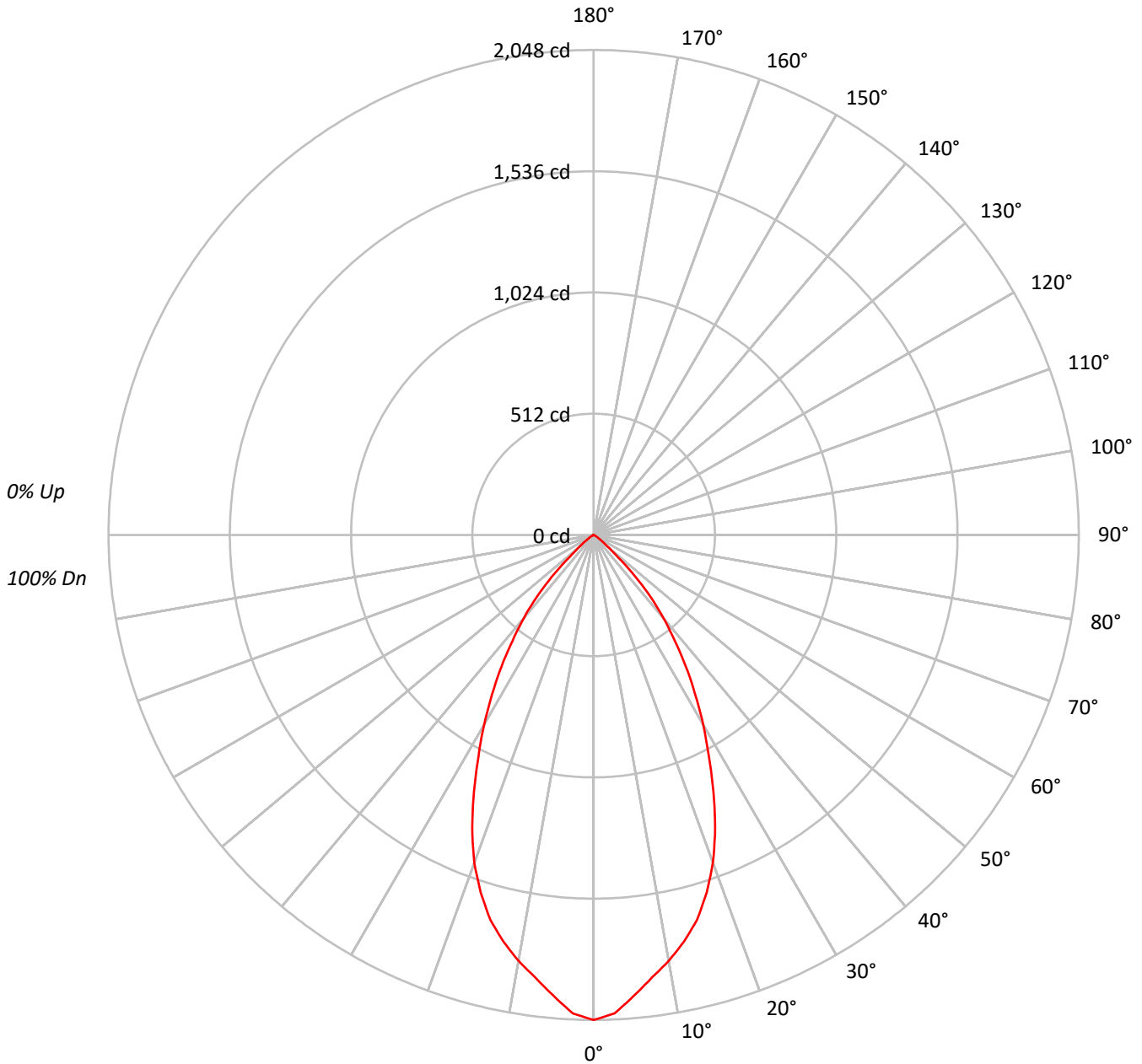
Lumens per Lamp: N/A
Luminaire Lumens: 1844.9 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.88
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P643758
CATALOG NUMBER: ML5615LSWFL559FS1E - 592H - 1500LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P643758

CATALOG NUMBER: ML5615LSWFL559FS1E - 592H - 1500LM - 3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	113	110	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86			
3	102	95	90	86	100	94	89	85	91	87	84	89	85	82	86	84	81	80			
4	96	88	83	78	94	87	82	78	85	81	77	83	79	76	81	78	75	74			
5	91	82	76	72	89	82	76	72	80	75	71	78	74	70	76	73	70	68			
6	86	77	71	66	85	76	70	66	75	70	66	73	69	65	72	68	65	63			
7	82	72	66	62	80	71	66	61	70	65	61	69	64	61	68	64	60	59			
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55			
9	74	64	58	53	73	63	57	53	62	57	53	61	56	53	60	56	53	51			
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	50	48			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	161695
5°	154761
10°	146402
15°	137577
20°	123734
25°	104095
30°	84216
35°	65425
40°	47269
45°	28077
50°	9493
55°	4294
60°	1295
65°	299
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 28077 cd/sqm



TEST NUMBER: P643758

CATALOG NUMBER: ML5615LSWFL559FS1E - 592H - 1500LM - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.5	9.9
10°-20°	468.1	25.4
20°-30°	546.2	29.6
30°-40°	422.7	22.9
40°-50°	191.8	10.4
50°-60°	31.1	1.7
60°-70°	2.6	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1196.7	64.9
0°-40°	1619.5	87.8
0°-60°	1842.3	99.9
0°-90°	1844.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1844.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2048	
5°	1953	182
15°	1683	468
25°	1195	546
35°	679	423
45°	252	192
55°	31	31
65°	2	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P643758

CATALOG NUMBER: ML5615LSWFL559FS1E - 592H - 1500LM - 3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	2048.3
2.5°	2022.0
5°	1953.0
7.5°	1885.6
10°	1826.4
12.5°	1759.0
15°	1683.4
17.5°	1584.7
20°	1472.9
22.5°	1339.8
25°	1195.1
27.5°	1052.1
30°	923.9
32.5°	797.3
35°	678.9
37.5°	560.6
40°	458.7
42.5°	358.4
45°	251.5
47.5°	134.8
50°	77.3
52.5°	49.3
55°	31.2
57.5°	18.1
60°	8.2
62.5°	3.3
65°	1.6
67.5°	1.6
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)